



## СИПН-1 3x120+1x95+1x25 ДСТУ 4743:2007, ТУ У 27.3-00214534-066:2013

Self-supporting flame-retardant wires with polymer compound insulation, with neutral carrier non-insulated conductor

Used for laying:

- *trunks of aerial electric power lines and line branches for the rated voltage of 0.6/1 kV*
- *in air, types I and II according to ГОСТ 15150-69*

It is possible to manufacture the wire with longitudinal core sealing by water-blocking materials

Fire safety code in accordance with ДСТУ 4809:2007: ПБ100000000

Products of this mark meet the requirements:

- *single wire cable flame retardance*

### TECHNICAL SPECIFICATIONS

|  |                 |                                    |
|--|-----------------|------------------------------------|
| Rated voltage  | kV              | 0.6 / 1                            |
| Number and rated area of phase conductors                                | mm <sup>2</sup> | 3 x 120                            |
| Number and rated area of additional conductors for light circuits        | mm <sup>2</sup> | 1 x 25                             |
| Carrier neutral conductor rated area                                     | mm <sup>2</sup> | 95                                 |
| Phase insulation thickness   | mm              | 1.7                                |
| Current ratings *  |                 |                                    |
| • <i>Continuous</i>  | A               | 340                                |
| • <i>at short circuit (not more than 1 s)</i>                            | kA              | 10.9                               |
| Maximum permissible conductor temperature                                |                 |                                    |
| • <i>Continuous</i>  | °C              | +90                                |
| • <i>at short circuit (not more than 5 s)</i>                            | °C              | +250                               |
| Operating temperature range  | °C              | -60 ... +50                        |
| Permissible temperature of laying (installation), no less than           | °C              | -20                                |
| Minimum bending radius by laying   | mm              | 443                                |
| Rated outer diameter of the cable (for reference) **                     | mm              | 44.3                               |
| Weight (approximate)   | kg/km           | 1530                               |
| Rated factory cable length and gross weight of the delivery on the drums | m, t            | # 18: 600 • 1.4<br># 20: 960 • 2.1 |

Notes:

*When ordering it is necessary to agree the factory length of the product with the manufacturer*

*\* Long permissible current loads are calculated for the following conditions: ambient temperature plus 25 °C, wind speed 0.6 m/s, the intensity of solar radiation 1000 W/m<sup>2</sup>*

*\*\* The external diameter may differ from the rated up to ± 10 %*



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### CONSTRUCTION

#### 1. Aluminium multiwire compacted conductor

Note: It is possible to manufacture the wire with longitudinal core sealing by water-blocking materials

#### 2. Multiwire aluminium-alloy compacted supporting conductor

Note: It is possible to manufacture the wire with longitudinal core sealing by water-blocking materials

#### 3. Multiwire compacted aluminium assisting conductor for light circuits

#### 4. Flame-retardant polymer compound insulation

Note: Wire lay-up is not illustrated.

